

I CLAIM:

CLAIMS

1. A putter alignment training system comprising:
 - (a) a turret including a laser emitting aperture;
 - (b) a remote switch for actuating the laser;
 - (c) a body having an axis, the turret being axially rotatably affixed to the body;
 - (d) a lockable articulated support arm projecting radially from the body; and
 - (e) a clamp for attaching the arm to a putter shaft; and
 - (f) the articulated arm being adjustable to so dispose the turret aperture that it can be rotatably adjusted to direct the laser horizontally in a plane passing through the putter's sweet spot and perpendicular to the face of the putter when a user is addressing a golf ball with the putter.
2. The system of claim 1 wherein the articulation of the arm is a ball joint rotatable within a cone of space.
3. The system of claim 2 wherein a backdrop is disposed behind a target to be impinged by the laser beam for visual indication of the alignment of the putter.

4. The system of claim 3 wherein the backdrop includes calibrations for gauging the degree of misalignment of the putter from the target.
5. The system of claim 3 further comprising an alignment guide comprising:
 - (a) an elongated strip for lying flat on a horizontal surface;
 - (b) a straight line running the length of the strip;
 - (c) a cradle affixed at one end of the strip for abutting engagement with the putter face so that the straight line on the strip is perpendicularly aligned with the sweet spot of the putter; and
 - (d) a support for holding the distal end of the strip upright, the laser impinging the straight line on the upright end of the strip when the aperture is properly aligned.
6. The system of claim 5 wherein the support comprises a ground stake with clip means for holding the distal end of the strip.
7. The system of claim 5 wherein the alignment guide is disposed behind a target to be painted by the laser beam for visual indication of the alignment of the putter.
8. The system of claim 5 the alignment guide includes calibrations for gauging the degree of misalignment of the putter from the target.

9. The system of claim 1 wherein the remote switch is removably attachable to the grip of the putter proximate a user's appendage for momentarily actuating the laser.
10. The system of claim 1 further comprising:
- (a) a ball enveloped by a ball socket sufficiently to confine the ball to the socket, the ball having a radial threaded stem projecting from a mouth of the socket;
 - (b) a cylindrical barrel with a spherical cup at one end having an axially centered hole through which projects the threaded stem;
 - (c) one end of a rod is disposed in the barrel and freely travels back and forth therein, said one end defines an axial hole, the other end of the rod is threaded externally and defines an open slot to accommodate a putter's shaft, the threaded stem being screwed into the axial hole;
 - (d) two hollow cylindrical spacers, each defining opposing circular notches, freely slide over the slotted end of the rod for clamping a putter's shaft in the notches; and
 - (e) a threaded knob engaged with the slotted end of the rod, the tightening of the knob over the threaded end of the rod acting against the two spacers and the barrel and also causing tension through the rod to the ball stem, the spacers in reaction to the force of the knob clamping the putter shaft, and the barrel in reaction to the force of the knob transmitted through the spacers applying compression force around the mouth of the ball socket via the barrel's spherical cup.

11. A putter alignment training system comprising:
 - (a) a turret including a laser emitting aperture;
 - (b) a remote switch for actuating the laser;
 - (c) a body having an axis, the turret being axially rotatably affixed to the body;
 - (d) an articulated support arm projecting radially from the body, the articulated arm being adjustable to so dispose the turret aperture that it can be rotatably adjusted to direct the laser horizontally in a plane passing through the sweet spot and perpendicular to the face of the putter when a user is addressing a golf ball with the putter; and
 - (e) means for both locking the articulated support arm when the turret is at a selected disposition and orientation, and clamping locked support arm to a putter's shaft.

12. The system of claim 11 wherein said means comprises:
 - (a) a ball enveloped by a ball socket sufficiently to confine the ball to the socket, the ball having a radial threaded stem projecting from a mouth of the socket;
 - (b) a cylindrical barrel with a spherical cup at one end having an axially centered hole through which projects the threaded stem;
 - (c) one end of a rod is disposed in the barrel and freely travels back and forth therein, said one end defines an axial hole, the other end of the rod is threaded externally and defines an open slot to accommodate a putter's shaft, the threaded stems being screwed into the axial hole;

- (d) two hollow cylindrical spacers, each defining opposing circular notches, freely slide over the slotted end of the rod for clamping a putter's shaft in the notches; and
 - (e) a threaded knob engaged with the slotted end of the rod, the tightening of the knob over the threaded end of the rod acting against the two spacers and the barrel and also causing tension through the rod to the ball stem, the spacers in reaction to the force of the knob clamping the putter shaft, and the barrel in reaction to the force of the knob transmitted through the spacers applying compression force around the mouth of the ball socket via the barrel's spherical cup.
13. The system of claim 11 wherein the remote switch is removably attachable to the grip of the putter proximate a user's appendage for momentarily actuating the laser.
14. The system of claim 11 further comprising an alignment guide comprising:
- (a) an elongated strip for lying flat on a horizontal surface;
 - (b) a straight line running the length of the strip;
 - (c) a cradle affixed at one end of the strip for abutting engagement with the putter face so that the straight line on the strip is perpendicularly aligned with the sweet spot of the putter; and
 - (d) a support for holding the distal end of the strip upright, the laser impinging the straight line on the upright end of the strip when the aperture is properly aligned.

15. The system of claim 11 wherein a backdrop is disposed behind a target to be impinged by the laser beam for visual indication of the alignment of the putter.
16. The system of claim 15 wherein the backdrop includes calibrations for gauging the degree of misalignment of the putter from the target.